**1).What is jQuery?**

**Ans.** jQuery is a lightweight, "write less, do more", JavaScript library.

The purpose of jQuery is to make it much easier to use JavaScript on your website.

jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.

jQuery also simplifies a lot of the complicated things from JavaScript, like AJAX calls and DOM manipulation.

The jQuery library contains the following features:

* HTML/DOM manipulation
* CSS manipulation
* HTML event methods
* Effects and animations
* AJAX
* Utilities

**2).How to Apply CSS Using JQuery, How to Add Class and Remove Class in Jquery , JQuery Animation?**

**Ans**. The css() method sets or returns one or more style properties for the selected elements.

To return the value of a specified CSS property, use the following syntax: css("*propertyname*"); -> $("p").css("background-color", "yellow");

To set multiple CSS properties, use the following syntax:

$("p").css({"background-color": "yellow", "font-size": "200%"});

We will look at four jQuery methods that are used to add new content:

* append() - Inserts content at the end of the selected elements->$("p").append("Some appended text.");
* prepend() - Inserts content at the beginning of the selected elements->$("p").prepend("Some prepended text.");
* after() - Inserts content after the selected elements-> $("img").after("Some text after");
* before() - Inserts content before the selected elements-> $("img").before("Some text before");

**3).How to create slider with animation?**

**Ans.**

jQuery Sliding Methods

With jQuery you can create a sliding effect on elements.

jQuery has the following slide methods:

* slideDown()

Syntax: $(*selector*).slideDown(*speed,callback*);

* slideUp()

Syntax: $(*selector*).slideUp(*speed,callback*);

* slideToggle()

Syntax: $("#flip").click(function({ $("#panel").slideToggle(); });

The jQuery animate() method is used to create custom animations.

Syntax: $(*selector*).animate({*params*}*,speed,callback*);

The required params parameter defines the CSS properties to be animated.

The optional speed parameter specifies the duration of the effect. It can take the following values: "slow", "fast", or milliseconds.

The optional callback parameter is a function to be executed after the animation completes.